

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	10/014,414	SCHAEFER, PHILIP P.	
	Examiner	Art Unit	
	Hung Q. Dang	2635	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to application's amendment received on 3/29/2005.
2.  The allowed claim(s) is/are 1-10 and 22-32.
3.  The drawings filed on 14 December 2001 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of
 Paper No./Mail Date \_\_\_\_\_.
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

## **DETAILED ACTION**

1. This communication is in response to application's amendment received on 3/29/2005. The amended claim 1, 5-7; the canceled claims 11-21; and the added claims 22-32 have been entered.

### ***Response to Arguments***

2. Applicant's arguments with respect to claims 1-10 have been fully considered and are persuasive. The rejections of claims 1-10 have been withdrawn.

### ***Allowable Subject Matter***

3. Claims 1-10 and 22-32 are allowed.

**Regarding claim 1**, the prior arts of record fail to teach or disclose a system for transmitting signals through an imperfectly-conducting medium as claimed in claim 1, which further includes an analysis means, wherein the received signal is analyzed to determine characteristics or features of the imperfectly-conducting medium.

**Regarding claim 22**, the prior arts of record fail to teach or disclose a system for transmitting through an imperfectly-conducting medium as claimed in claim 22, which includes a first wireless propagation path within the imperfectly-conducting medium, wherein an electrical field corresponding to the signal is produced; a second wireless propagation path not within the imperfectly-conducting medium, wherein an electromagnetic field corresponding to the signal is produced; a set of one or more conductors coupled to the imperfectly-conducting medium and to either the transmitter or the receiver through one or more leads; and output means for outputting the received signal, whereby the signal to be transmitted propagates through the first wireless

propagation path and through the second wireless propagation path from the transmitter to the receiver.

**Regarding claim 29**, the prior arts of record fail to teach or disclose a method for transmitting a wireless signal through an imperfectly-conducting medium as claimed in claim 29, which includes generating a wireless electric field within the imperfectly-conducting medium corresponding to the signal; and generating a wireless electromagnetic field outside or along the boundary of the imperfectly-conducting medium corresponding to the electric field; sensing the electromagnetic field to detect the signal; and outputting the signal.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **Conclusion**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Q. Dang whose telephone number is (571) 272-3069. The examiner can normally be reached on 9:30AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik can be reached on (571) 272-3068. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HD

MICHAEL HORABIK  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600

